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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/055,560	01/22/2002	Mou-Shiung Lin	085027-0058	6103
89518 7590 12/17/2010 McDermott Will & Emery LLP 600 13th Street, NW			EXAMINER	
			MITCHELL, JAMES M	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			2813	
			NOTIFICATION DATE	DELIVERY MODE
			12/17/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mweipdocket@mwe.com SIP\_Docket@mwe.com Application/Control Number: 10/055,560 Page 2

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### SUPPLEMENTAL DETAILED ACTION

This office action is response to applicant amendment filed September 24, 2010.

#### Information Disclosure Statement

The information disclosure statement (IDS) submitted on March 29, 2009 was in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### Election/Restrictions

Claims 242, 243 and 244 are directed to allowable subject matter. Claims previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

#### EXAMINER'S AMENDMENT

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dennis Duchene on September 30, 2010.

The application has been amended as follows:

### CLAIMS

Cancel claims 254, 255, 273 and 274.

In claims 242, line 7 after ""passive device" delete "comprises a part not directly" and insert- -not vertically- -,

and in line 8 after "package;" delete "and" and insert- -after said joining said die and said substrate, forming a solder bump over said horizontal level; and- -,

and in line 9 after "circuit layer" delete "and" and insert--,-- and after "passive device" insert -- and--.

and in line 10 before "separating" insert--said forming said solder bump then,--.

In claim 243, line 6 after "horizontal level," insert--wherein said passive device is not vertically over any die in said chip package,--.

In claim 244, line 6 after "passive device" delete "has a part is not directly" and insert - not vertically- -.

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and in line 12 after "die" insert--; and after said forming said insulating layer and said forming said patterned circuit layer, forming a solder bump over said horizontal level--.

In claim 282, line 2 after "forming said" insert - -solder bump"--.

## Allowable Subject Matter

Claims 242- 248 and 250-253, 256-272 and 275-290 are allowed.

The following is an examiner's statement of reasons for allowance. Regarding claim 242 the prior art does not disclose or make obvious joining die to substrate and over a die top level/horizontal level forming a passive device over the horizontal level, but not vertically over any die, forming bumps over the horizontal level and separating said substrate into multiple portions including all the limitations of the independent claim.

Regarding claims 243 and 244, the prior art does not disclose or make obvious after forming separating material between dies having a top, forming a passive device over the horizontal level wherein the passive device is not vertically over any die. In contrast as shown in Eichelberger (U.S 5,250,843) the passive device is formed prior to the separating material formed between the dies.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES M. MITCHELL whose telephone number is (571)272-1931. The examiner can normally be reached on M-F 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew Landau can be reached on (571) 272-1731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Matthew C. Landau/ Supervisory Patent Examiner, Art Unit 2813

September 30, 2010 /James M. Mitchell/ Examiner, Art Unit 2813